Docket No.: 02-42 US

ABSTRACT OF THE DISCLOSURE

A micro-electro-mechanical vibrating pumping stage comprises a silicon substrate (15) on which there are formed a single-layer or multilayer oscillating assembly (27; 127; 227; 327) with a vibrating membrane and a device controlling the membrane in order to provide its

5 oscillation with respect to the substrate. A molecular vacuum pump incorporates this vibrating pumping stage.